Prometheus Radio Project

flame filching, wave snatching, people-powered radio!
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Prometheus Recommended Solutions For The LPFM Reconsideration (MM No. 99-25)

1. Encroachment of LPFMs

The Federal Communication Commission's recent action in MM Docket No. 05-210, (Commission determined that broadcasters' change in their community of license for full power stations would now be considered a minor modification, rather than a major modification) has exacerbated an existing issue threatening LPFM stations. LPFMs lack primary status, a standing which renders LPFM stations vulnerable to the movement of full power stations. If a full power station chooses to, they can take the channel of a LPFM station at will. At times these stations lose a portion of their already limited broadcasting radius; other times, the station's very existence is at stake.

Since the Commission has made it easier for full power stations to change their community of license, an accelerating number of LPFM stations (see attachment) are faced with the difficult situation of having to negotiate for their survival, with no compelling laws or policy to aid them in their search for a new frequency. These small stations often face very high engineering and legal costs to even understand their options and protect the few rights they have in this process. Even with a successful defense against encroachment, nothing will prevent the station from being encroached upon again.

With respect to full power stations, it is Prometheus' position that Low Power stations should have primary status. LPFM stations should not be allowed to be encroached upon by full power stations. It may have made sense in 2000, during the creation of LPFM, to think of these stations as "secondary, supplementary" services. In light of the abandonment of local production, and the advent of voice tracking and radio empires, this Commission rationale must adjust to the current reality. It is inexplicable when the only station in town willing to cover the city council meeting – or other local activities – is allowed to get knocked off simply because a Top 40 station wants to shift away from the old small town it serves and move a short distance to be closer to an emerging population center 30 miles away.

Solutions:

LPFMs and Full Power Stations, in order of efficacy for policy goals of localism:

- A) Option one: Grant low power stations co-equal status with full power stations. LPFMs would be protected from displacement or new interference by full power station allocations and moves. New LPFMs would still be allowed to be allocated in locations that accept interference to the LPFMs in their predicted contours, when there are no other options for other channels. Primary status would apply to new interference caused to the LPFM.
- B) Option two: Only allow a full power station to bump a low power station if there exists a channel of equal quality for the low power station to move to. The bumping station should (as part of their showing in their minor modification request) make the engineering showing of the viability

- of a new channel for the LPFM, and pay the LPFM station's reasonable and prudent expenses for changing frequencies.
- C) Option three: Only allow the full power station to bump a low power station if they can make a public interest showing, demonstrating that they will provide more locally originated public service programming than the LPFM does.

Additional Matter: A wholly inadequate, but mildly ameliorative measure that can supplement the above options also bears mention. The Audio Division has recently allowed KYRS-LP to change channels when faced with encroachment by a full power change of community of license that would have eliminated their signal. This has been an excellent first step towards one approach to fixing this problem in certain circumstances. The Audio Division granted waiver to the spacing rules on the second adjacent channel, because it was demonstrated that there was zero population in the small radius of potential second adjacent channel interference. This is a common practice for FM translators. The FCC required that the LPFM receive letters of support from the 2nd adjacent channels potentially affected. No such letters are required of FM translator stations. Indeed, KYRS first approached a different commercial station asking for a letter of support of a zero interference waiver, but was refused. We'd ask that the Audio Division conform to the existing practice with translators, and allow LPFMs to receive these waivers without permission from adjacent channel stations.

2. Spectrum Availability for LPFM

Of the hundreds of potential frequencies in urban areas that the Commission intended to allocate to Low Power FM in 2000, the vast majority of them will be given away to a handful of speculators if the rules are not changed surrounding translators. Since the Commission issued a report to Congress recommending completing the implementation of LPFM,it would be very ironic if there are no frequencies left for communities to apply for.

In March of 2003, the Commission opened a new window for applications for translator licenses. Translators are very similar to Low Power FM, fitting on many of the same potential frequencies. Translators cannot, however, originate their own programming; they must repeat the signal of a full power station. The translator system was designed in 1970 to help existing stations 'fill-in' coverage blocked by hills, mountains, and other geographic features that prevent stations from reaching their full city of license. Available frequencies for translators are governed under a more liberal set of rules than LPFM so it is often possible to get a translator frequency in locations where no LPFM is possible. From a physical standpoint, translators are nearly identical to LPFM radio stations. They use transmitters of similar power (from 10 to 250 watts), broadcast to similar ranges using the same equipment, and create similarly miniscule amounts of interference in the immediate vicinity of the transmitter site.

When allocating frequencies, the Commission puts translators essentially on par with Low Power applicants – on a first-come, first-serve basis. The Commission intended to give low power FM stations the first bite at this apple. Unfortunately, due to the delay caused by the MITRE study of the potential for 3rd adjacent channel interference imposed by Congress, the FCC just moved on and opened up a window for translator applications, allowing translators to skip the line. We believe that translators should have a "secondary" status with regard to locally based Low Power stations – if a bona fide local organization wants to use a channel for real, new, local broadcasting, they should not be pre-empted by a repeater. The licensing system as it stands gives preference to remote, out of state organizations looking to rebroadcast on thousands of channels nationwide, rather than to local entities who want just one community radio station.

Solutions, in order of efficacy for policy goals of localism:

A) Make LPFMs primary to translators, thus allowing local groups a second chance to utilize the spectrum inadvertently given to speculators in 2000. Allow LPFMs to displace these translators

- in later filing windows.
- B) Make LPFMs which chose to pledge 8 hours per day of locally originated programming primary to translators of stations which do not meet this standard. Allow "fill-in" translators of full power stations which meet the standards of 8 hours per day of local origination to be primary to LPFMs which do not meet these standards. Allow LPFMs that meet this criteria to displace translators of stations that do not meet these criteria. As an alternative to the 8 hours per day of local origination preference, also acceptable would be 3 hours per week of locally produced public affairs programming (similar to the standard used for LPTV). We would happily accept a higher number of hours of locally produced public affairs programming as the standard.
- C) Make LPFMs primary to translators filed in the March, 2003 filing window, leaving earlier filed translators primary to subsequent filed LPFMs. 2003 window translators within 400 km or in the same state as their primary station could be exempt. Allow LPFMs to displace translators not meeting these criteria.
- D) Allow new LPFMs pledging 8 hours of locally originated programming per day to take the frequency of a translator, when the translator has a viable frequency it can move to. Because translators have more spectrum availability options, they can often find channels where LPFMs can not.

Separately, we would ask the Commission to delay the AM translator in the FM band proceeding until the relationship between LPFMs and translators is sorted out. Or at least, we ask that the Commission decide upon the use of AM translators in the FM band at the same time as LPFM/translator priority.

3. Improve Engineering Tools Available To LPFMs

Currently, translators/repeaters are allowed to use a relatively accurate "contour prediction" method, which allows engineers to take into account factors that affect radio propagation in the real world. Although low power FM stations are technically identical to repeaters/translators (even using the same models of transmitters and antennas), they are only permitted to submit the "minimum-distance" method of study for proper spacing. This not only overprotects other stations from LPFMs, but also has the strange and unintended effect of allowing non-local translators in thousands of places where low power, truly local stations are prohibited. If this were corrected, low power community stations could serve every city in the country, and truly fulfill the goals of localism. Low Power FMs should be allowed to use the same rules as translators and submit contour overlap studies when applying for licenses.

Solutions:

- A. In future application windows, there should be two windows- a first for LPFM stations that are able to use the cheap and simple minimum distance method, and a second window where LPFMs can submit engineering studies using the more accurate contour studies and translator rules. These studies are expensive, but LPFMs are willing to bear this cost in places where no channel can be found using the minimum distance method. LPFMs allocated using the contour method would have the same technical burden as translators to address interference complaints. It has been pointed out that this can in some instances be burdensome, but LPFMs that get the benefit of using this method of allocation will be willing to accept the cost that goes with it.
- B. The FCC uses several propagation models, such as Longley-Rice and Point to Point (version 2), that are even more accurate than contour prediction. Contour prediction is more accurate than minimum spacings, and Longley Rice and PTP are more accurate than contour overlap. These methods have successfully been adopted by the Commission in the DTV transition. We would heartily encourage the Commission to update it's rules, using tools that the Commission already regularly uses in other radio applications, to improve the efficiency with which the FCC allocates FM channels. The National Translator Alliance and other entities have also asked the FCC to update it's allocation methods.

To: Chairman Kevin J. Martin

Room: 8-B201

Federal Communications Commission

445 12th Street SW Washington, D.C. 20554

From: Pete Tridish

Prometheus Radio Project

P.O. Box 42158

Philadelphia, PA 19101

Date: April 25, 2007

Subject: LPFMs under threat of encroachment from CCOL with available

channels to move to

Due to the recent FCC rulemaking that allows Full Power Stations to obtain city of license changes by filing a minor change application, LPFMs around the country are being threatened with encroachment and the possibility that their station could be knocked off the air. The changes in community of license for full power stations not only threaten LPFMs across the country, but do not, in about half of the move-in cases, fulfill their responsibility to serve the local community of license but instead project there signal into an urban market. According to recent comments submitted in this proceeding by William Clay, in about half of all move-ins, the community of license is less than 1% of the station's covered audience.)

As per our recent conversation, Prometheus studied the stations that are currently under threat of encroachment. Seventy-two stations are currently under new or increased threat of encroachment due to the CCOL applications from full power stations. Using the FCC LPFM Channel Finder tool

(http://www.fcc.gov/mb/audio/lpfm/lpfm_channel_finder.html) we found that of these seventy-two stations, twenty-four have at least one channel available given the current spacing requirements for LPFMs. With full engineering reports, some of these frequencies may also prove to be unavailable. Thus, in at least two thirds of all cases some form of special waiver would be required.

In order to procure a waiver, several thousands of dollars of engineering and legal work is generally required. Only a handful of the LPFMs have been able to muster the needed resources to determine their fate. In at least one case, that of KPCN in Oregon, despite significant legal and engineering support, no channel change would be able to save the station. We will continue to find data on availability of channels in special waiver situations—however in the current situation it is safe to say that almost all the stations are finding it cost prohibitive to even discover what their options are. This bodes poorly as policy, when so many need expensive waivers in order to maintain the status quo.

If all of the applications for community of license are granted to full power stations, communities across the country will loose not only the valuable resource of a low power community station, but will additionally lose the diversity of programming that the FCC is committed to.

Attached, you will find a list of the LPFM stations that have some level of threat .. Each station is listed by call sign, name, location, encroachment level and whether a channel is available under the LPFM rules.

Sincerely, Elena Botkin-Levy Pete Tridish Prometheus Radio Project

> Low power FM stations under threat of encroachment from full power move-ins from change in community of license applications:

> > CHANNE

LP-STATION	LOCATION	ENCROA CHMENT LEVEL	CHANNE L AVAILA BLE
Association of			
Community Resources	St George,		
and News	UT	Red	no
and news	Cincinnati	City	110
Christian Hits Inc	, OH	Grade	no
Cincinnati Community	Cincinnati	City	
Radio	, OH	Grade	no
Confederated Salish &	Moise, MT	3rd	yes
Kootenai Tribes and	•	Adjace	4
Disaster & Emergency		nt	
Services			
Edward Philip	Cincinnati	City	
Cunningham	, OH	Grade	no
Forest Hills School	Cincinnati		
District	, OH	Major	no
KAMV Alianza			
Ministerial Vision	Brighton,		
Milenial	CO	Orange	no
KCSA Concho Christmas	San	City	
Celebration	Angelo, TX	Grade	no
KCTQ Confederated	Charlo, MT	Major	yes
Salish & Kootenai			
Tribes and Disaster &			
Emergency Services KDEE California Black	Co green and a		
Chamber of Commerce	Sacramento	Yellow	
	, CA		no
KDRT Davis Community Television	Davis, CA	City Grade	no
KEOE V.E. Leach	Lufkin, TX	Orange	
Ministries	Durkin, ix	Orange	yes
KESW Jefferson County	Whitehall,	Orange	yes
Disaster & Emergency	MT	Orange	yes
Services	111		
BCI VICEB	Grand	3rd	
KGJN State of Colorado	Junction,	Adjace	
Telecom Services	CO	nt	no
KLBG Life at its Best	Glide, OR	Orange	yes
Inc	, 		7
KLPC Lone Pine Advent	Lone Pine,	Major	yes
Believers	CA	<u> </u>	4

KMEA Galatin Christian	Bozeman,	City	
Education Station	MT	Grade	no
KNFS The Lorax Society	Tulare, CA	Orange	no
INITE THE BOTAX BOCTECY	idiale, ca	_ ~	110
TOGA D 1	D 1 7	3rd	
KPCA Petaluma	Petaluma,	Adjace	
Community Access	CA	nt	no
KPCN Pineros y	Woodburn,		
Campesinos Unidos	OR	Major	no
KPCT State of Colorado	Parachute,	- 5 -	
Telecom Services		0	
	CO	Orange	no
KPIE Community			
Information System	Dallas, OR	Yellow	no
KPVN Centro de			
Servicios Para	Woodburn,		
Campesinos	OR	Major	no
-		2	110
KQRZ Heritage	Hillsboro,	City	
Christian School	OR	Grade	no
KQSO Western Oregon		City	
Radio Club	Dayton, OR	Grade	no
KRBH Red Bluff Union	Red Bluff,	Orange	yes
		orange	ycs
High School District	CA	- 1	
KRIM Payson Council	Payson, AZ	Red	yes
for the Musical Arts			
		3rd	
KRPC Sonoma State	Rohnert	Adjace	
University	Park, CA	nt	no
-		110	110
KRYH Power-Up Radio	Temple, TX	Orange	no
KSHC St. Helena Good			
News Broadcasting	Angwin, CA	Orange	no
KSMK St. Mary's	St. Marys,	City	yes
	- '	_	yes
Academy Home Study	KS	Grade	
School Association			
KSTG Lodi Christian			
Radio	Lodi, CA	orange	no
	•	2	
KTGC St Regis Public	St Regis	Vellow	VAS
KTGC St. Regis Public	St. Regis,	Yellow	yes
School	St. Regis, MT	Yellow	yes
School KTPJ Hope Radio of	MT		yes
School	9 '	Yellow Major	yes
School KTPJ Hope Radio of	MT		no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State	MT Pueblo, CO Stevenvill	Major 3rd	_
School KTPJ Hope Radio of Pueblo Corp	MT Pueblo, CO	Major 3rd Adjace	no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University	MT Pueblo, CO Stevenvill e, TX	Major 3rd Adjace nt	no yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town	MT Pueblo, CO Stevenvill e, TX Kerrville,	Major 3rd Adjace	no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University	MT Pueblo, CO Stevenvill e, TX	Major 3rd Adjace nt	no yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications	MT Pueblo, CO Stevenvill e, TX Kerrville,	Major 3rd Adjace nt	no yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town	MT Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada	Major 3rd Adjace nt Orange	no yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J	MT Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA	Major 3rd Adjace nt Orange Yellow	no yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust	MT Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati	Major 3rd Adjace nt Orange Yellow City	no yes yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH	Major 3rd Adjace nt Orange Yellow City Grade	no yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges	MT Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade City	no yes yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges	MT Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade City	no yes yes yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade City	no yes yes yes no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade City Grade	no yes yes yes
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Cincinnati , OH Norwood,	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade City Grade City Grade City	no yes yes yes no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade City Grade	no yes yes yes no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Cincinnati , OH Norwood,	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade City Grade City Grade City	no yes yes yes no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Burlington	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade City Grade City Grade City	no yes yes yes no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Norwood, OH Burlington , VT	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade City Grade City Grade City Grade	no yes yes yes no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Norwood, OH Burlington , VT Indian	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes yes no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Cincinnati , OH Surlington , VT Indian Hill, OH	Major 3rd Adjace nt Orange Yellow City Grade Major	no yes yes yes no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Cincinnati , OH Torwood, OH Burlington , VT Indian Hill, OH Shoreham,	Major 3rd Adjace nt Orange Yellow City Grade City Crade City Crade City Crade City Crade	no yes yes yes no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Cincinnati , OH Surlington , VT Indian Hill, OH	Major 3rd Adjace nt Orange Yellow City Grade Major	no yes yes yes no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Cincinnati , OH Torwood, OH Burlington , VT Indian Hill, OH Shoreham,	Major 3rd Adjace nt Orange Yellow City Grade City Crade City Crade City Crade City Crade	no yes yes yes no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Shoreham, NY	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes yes no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade City Crade	no yes yes yes no no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade Orange Major City Grade City Grade	no yes yes yes no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group United Universal	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade Orange Major City Grade City Grade City City City City City City City Cit	no yes yes yes no no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes yes no no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group United Universal	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade City Grade City Grade Orange Major City Grade City Grade City City City City City City City Cit	no yes yes yes no no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group United Universal Fellowship	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes yes no no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group United Universal Fellowship Victory Church	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes yes no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group United Universal Fellowship Victory Church WBYJ Burlington	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Norwood, OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH Cincinnati , OH Cincinnati , OH Shoreham, NY Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes yes no no no no no no no no
School KTPJ Hope Radio of Pueblo Corp KTRL Tarlton State University KWSP Home Town Communications KYRR Steven J Michelsen Trust Media Bridges MKWS Inc O'Conner Communications Inc Our Lady of the Holy Spirit Peace and Justice Center Public Radio of Camp Dennison Shoreham Broadcasting Corp The Nathan B Stubblefield Wireless Group United Universal Fellowship Victory Church	Pueblo, CO Stevenvill e, TX Kerrville, TX Nevada City, CA Cincinnati , OH Cincinnati , OH Cincinnati , OH Burlington , VT Indian Hill, OH Shoreham, NY Cincinnati , OH Cincinnati , OH Cincinnati	Major 3rd Adjace nt Orange Yellow City Grade	no yes yes yes no

		•	
WCFQ Standing in the	Inverness,	Major	yes
Gap WCFY Christian	FL Evansville		
Fellowship Church	, IN	Orange	no
WCGR Groveport Madison	Groveport,	01090	
Local School District	OH ,	Red	no
WCPL First Baptist			
Church of Merritt	Merritt		
Island	Island, FL	Yellow	no
WCRC Community Refugee and Immigration	Columbus,	City	
Services	OH	Grade	no
	Columbus,	City	
WCRS Simply Living	ОН	Grade	no
WCRX Bexley Public	Columbus,	City	
Radio Foundation	OH	Grade	no
WDTF Defenders of the Faith	Berkeley	Yellow	yes
ralui	Springs, WV		
WEKJ Christian Radio	Homosassa,	City	yes
Network	FL	Grade	7
WEVT Spavin Cure	Enosburg,	Orange	yes
Historical Society	VT	_	
WFBO Halifax Christian	Flager	3rd	yes
Community Church	Beach, FL	Adjace nt	
WFLP State of Florida	Collier	Yellow	yes
Will beace of fiorial	Co, FL	10110#	700
WFWC Fremont United	Fremont,	Yellow	yes
Methodist Church	NC		
WGNH Gethsemane	Lexington,		
Anabaptist Church	SC	Major	no
WHCK Essence of Love Ministries	Hopewell, VA	Yellow	no
WINF Delaware County	Delaware,	ICIIOW	110
Development Co	OH ,	Major	no
WJFY Newark Area		<u>-</u>	
Christian Broadcasting	Neward, OH	Orange	no
WLEZ Mississippi	To all 200		
international Film and Video Festival	Jackson, MS	Red	no
WMCC Radio 7 Company	Spencer,	Yellow	yes
mice made , company	WV	10110	700
	Chambersbu	City	
WRZO Dack Inc	rg, PA	Grade	no
WSKM Crossgates	Brandon,		
Baptist Church	MS Lake	Orange	no
WUCR Synewave Communications	Butler, FL	3rd Adjace	yes
Commaniforcial	Ducter, 11	nt	
WUFR Communication	Umatilla,		
Arts Center	${ t FL}$	Red	no
	The		
WVLG The Villages Chamber of Commerce	Villages,	Vollow	20
Chamber of Commerce	FL Williamsbu	Yellow	no
WYOU New Horizons 3000	rg, VA	Red	no
WZKO Hodges Women in	Hodges, SC	Yellow	yes
Broadcasting Club	-		-

Encroachment Explained

Encroachment occurs when an FM station having primary status (i.e. any commercial station) moves its transmitting site closer to an LPFM. The level and effects of the encroachment vary depending on how close the move brings the full power to the LPFM. It may mean that the LPFM

could lose some signal coverage, or even be forced to shut down the station. Since Low Power FM is a secondary service in relation to Full Power stations, LPFMs have to give way to full power in the event they want to move their location closer, or if they want to change their frequency. It doesn't matter if the LPFM was there first. There are a few different levels of encroachment depending on how close the full power station is moving to the LPFM.

3rd adjacent warning: The full power station's service contour has overlapped into the very small LPFM's interference contour. LPFMs may be required to resolve interference problems addressed in §73.810.

3rd adjacent advisory: The 20 km buffer zone around the full power station's protected service contour has overlapped the LPFM's third adjacent channel interference contour. Although unlikely the LPFM will receive interference complaints it is very possible that listeners with radios of poor design may not receive the station in fringe areas.

yellow: When the interference contour of the full power station overlaps with the LPFM's service contour. Yellow encroachment only displays on co-channel and higher powered first adjacent channel stations. Based on the full power station's location and the terrain between it and the LPFM, the LPFM may experience interference in the direction of the encroaching station.

Orange: When the LPFM's interference overlaps into the buffer zone located 20 km beyond a full power station's protected contour. The FCC created the buffer zone to allow LPFM stations to stay on the air even if full power stations make short moves. While this operation may still be legal, the LPFM station may encounter more interference from the full power station resulting in a smaller coverage area. No new LPFM stations would be licensed in this area.

red: The full power FM station's primary service contour has overlapped the interference contour of the LPFM. LPFM stations with a red encroachment on the co-channel or first adjacent channel could suffer significant interference and may receive interference complaints from the full power station. Red encroachment on the second adjacent channel could result in a decreased coverage area, especially from listeners with less selective analog receivers. This can also impact the LPFM's future ability to launch an effective IBOC service (if the FCC continues allowing IBOC).

major: The 60 dBu protected service contours of both the full power and LPFM stations overlap. For non-commercial stations, this is considered interference per §73.809(a)(3). For commercial stations, §73.809(a)(1) and (2) state that interference in the full power station's city grade (70 dBu) or within the community of license is considered legal interference. For IF channels (+/- 10.6 and 10.8 MHz), MAJOR will also be displayed if the 91dBu contours of the full power and the LPFM station overlap. LPFMs receiving a MAJOR message should start immediately considering remedial action or preparing a demonstration on how the LPFM will not cause interference to the proposed full power facility. MAJOR does not mean the end of your station, especially if the MAJOR message appears on second adjacent,

but it means you need to do some serious thinking about your next move.

city grade: The 70 dBu City Grade contour of the full power FM station overlaps into the service contour of the LPFM station. This is legal interference under §73.809(a). LPFM stations should prepare for a possible complaint from the full power station and should start looking to make their next move.

Sources:

FCC Low Power FM (LPFM) Radio Channel Finder
http://www.fcc.gov/mb/audio/lpfm/lpfm_channel_finder.html

Recnet.com

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Prometheus Radio Project

Radio Project roposed Rulemaking,

flame filching, wave snatching, people-powered radio!
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Commissioner Jonathan Adelstein
Legal Advisor Rudy Brioche
Commissioner Michael Copps
Legal Advisor Bruce Gottlieb
Audio Division Chief Peter Doyle

Pursuant to Section 1.1206(b), 47 C.F.R. §1.1206(b) of the Commission's rules, this letter, with attachments, is being filed electronically with your office today.

Respectfully submitted, Pete Tridish